

OPTICAL INTERCONNECT FOR MEZZANINE CIRCUIT BOARDS

Abstract of the Disclosure

An optical interface is provided to supplement an electrical interface
5 between a main circuit board (102) and a mezzanine circuit board (104) that is
mounted above the main circuit board. The mezzanine circuit board is
mounted generally parallel to, and above the main circuit board. In between
the two circuit boards is provided an optical interface. A light source (200) is
10 mounted to one of the circuit boards and a complementary photo detector
(202) is mounted on the other circuit board in a manner such that the photo
detector receives light from the light source. Two optical interfaces are
preferred for two-way communication between the main circuit board and the
mezzanine circuit board. The light source is preferably a laser and the photo
15 detector is preferably a photo diode. The optical interface provides a high
speed interconnect to increase conductivity and functionality between the
main circuit board and the mezzanine circuit board.

50001-10390.doc